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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,123	09/04/2001	Takayuki Tanaka	2001-1230A	1763	
513	7590 06/05/2003				
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800			EXAMINER		
			MENEFEE, JAMES A		
WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER	
			2828		
			DATE MAILED: 06/05/2003	DATE MAILED: 06/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)
•1	09/944,123	TANAKA, TAKAYUKI
Office Action Summary	Examiner	Art Unit
	James A. Menefee	2828
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the meamed patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a t. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MC tatute, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	<u> </u>	
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.	
3) Since this application is in condition for all		
closed in accordance with the practice uno Disposition of Claims	der Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.
4)⊠ Claim(s) 1-15 is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are with	drawn from consideration.	
5) Claim(s) is/are allowed.		0 00
6)⊠ Claim(s) <u>1-15</u> is/are rejected.		Paul DP
7) Claim(s) is/are objected to.		PAUL IP
8) Claim(s) are subject to restriction ar Application Papers	nd/or election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800
9) The specification is objected to by the Exam	niner.	
10)⊠ The drawing(s) filed on 04 September 2001		objected to by the Examiner.
Applicant may not request that any objection t		•
11)☐ The proposed drawing correction filed on	is: a) ☐ approved b) ☐	disapproved by the Examiner.
If approved, corrected drawings are required in	n reply to this Office action.	
12) The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority docum	ents have been received.	
2. Certified copies of the priority docum	ents have been received in A	Application No
 3. Copies of the certified copies of the paper application from the International * See the attached detailed Office action for a 	Bureau (PCT Rule 17.2(a)).	•
14) Acknowledgment is made of a claim for dom	•	•
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dom	provisional application has t	peen received.
Attachment(s)	•	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
S. Patent and Trademark Office TO-326 (Rev. 04-01) Offic	e Action Summary	Part of Paper No. 3

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: "118" in Fig. 1. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 11-15 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Each of these claims is using the device of a previous claim in an optical transmission system. These claims are thus using the laser diode drive circuit in a separate system; they do not limit the structure of the actual laser diode drive circuit.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakano (US 6,292,497). Nakano discloses the claimed invention as follows, the entire document is relevant:

Regarding claim 1, Nakano discloses a laser diode drive circuit comprising a temperature compensating circuit, a device that stores in memory a signal from a monitor photodiode as light output power data, and a device that implements automatic control of temperature compensation and degradation compensation for said laser diode by using said light output data value as a reference value.

Regarding claims 2 and 4, the light output data value stored in memory is regularly updated by the control devices 1 and 10.

Regarding claim 3, the degradation compensation is achieved for the laser diode by changing a modulation current flowing through the laser to match the level of the light output power from the laser diode to the light output power data value stored in memory.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano.

Nakano does not disclose that the driving system is used in an optical transmission system.

However, it is extremely well known that lasers are often used in optical transmission systems. It would have been an obvious engineering design choice to use this specific laser system as the laser system in an optical transmission system.

Claims 5-10 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano in view of Salter et al. (US 4,355,395).

Regarding claim 5, Nakano discloses the limitations of the claim as in the rejection of claim 1 above, and further discloses that the system can also control extinction ratio as claimed (col. 6 lines 12-29). It is not disclosed that an amplitude detection circuit comprises a bottom detector, a peak detector, and a differential amplifier. Salter discloses a drive circuit including such elements 24-28. It would have been obvious to one skilled in the art to include such elements in the drive circuit as they will keep the output levels of the laser stable, as taught by Salter.

Regarding claims 6-8 and 10, the limitations are disclosed as in the above rejections of claims 2-4 and 2 respectively.

Regarding claim 9, Nakano discloses the extinction ratio compensation is achieved by changing the DC bias current through the laser based on the light output level in memory.

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Regarding claims 13-15, the limitations are disclosed as in the above rejections of claims 11-12.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Menefee whose telephone number is (703) 605-4367. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JM

May 27, 2003

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Paul Do